

# 2760

### VHF BEAM POWER AMPLIFIER

9-PIN MINIATURE TYPE

GENERAL DATA	
Electrical: Heater, for Unipotential Cathode:	
Voltage 6.0 ac or dc vo	
Current 0.75	amp
current of 45 ma 7000 $\mu$ m	hos
Mu-Factor, Grid No.2 to Grid No.1 16	
Direct Interelectrode Capacitances:0	
Grid No.1 to Plate 0.3 max	щf
	μμf μμf
O with no external shield.	
Mechanical:	
	Апу
Maximum Overall Length	
Maximum Seated Length	32"
(Maximum Diameter	/8°I
Bulb	Pin
Basing Designation for BOTTOM VIEW	9К
Pin 1-Plate 4 6 Pin 5-Heater	
Pin 2 – No Pin 6 – Grid No.	2
Connection Pin 7 - Cathode	ļ
Pin 3-Grid No.3 Pin 8-Grid No.	1
Pin 4 - Heater 9 - Grid No.	1
RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy ===	
and	
RF POWER AMPLIFIER - Class C FM Telephony	
Maximum CCS® Ratings, Absolute Values:  DC PLATE VOLTAGE	lts
100 LENGE TOETMALE	lts
DC GRID-No.2 (SCREEN) VOLTAGE 250 max. vo	lts
The diff here fourther diffe, to the transfer of the	lts ma
DC GRID-No.2 CURRENT 15 max.	ma
DC GRID-No.1 CURRENT 5 max.	ma
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• DD: See next page.	



# VHF BEAM POWER AMPLIFIER

PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to c	athode.	100 max.	volts
Heater positive with respect to c	athode.	100 max.	volts
BULB TEMPERATURE AT HOTTEST POINT			0-
ON BULB SURFACE		250 max.	°C
Typical Operation at 50 Mc:			
DC Plate Voltage		300	volts
	ected to	cathode at	socket
DC Grid-No.2 Voltage		250	volts
DC Grid-No.1 Voltage® · · · · ·	ſ	-60	volts
DC Grid-No.1 Voltage	1	22000	ohms
Peak RF Grid-No.1 Voltage		80	volts
DC Plate Current		50	ma
DC Grid-No.2 Current		5	та
DC Grid-No.1 Current (Approx.)		3	ma
Driving Power (Approx.)		0.35	watt
Power Output (Approx.)		8	watts
EDEOUENCY MULT			
FREQUENCY MULT			
Maximum CCS® Ratings, Absolute Valu	es:		
DC PLATE VOLTAGE		300 max.	volts
DC GRID-No.3 (SUPPRESSOR) VOLTAGE.		0 max.	volts
DC GRID-No.2 (SCREEN) VOLTAGE		250 max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE		-125 max.	volts
DC PLATE CURRENT		50 max.	ma
DC GRID-No.2 CURRENT		15 max.	ma
DC GRID-No.1 CURRENT		5 max. 15 max.	ma watts
GRID-No.2 INPUT		2 max.	watts
PLATE DISSIPATION		12 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		IZ IIIGA.	watts
Heater negative with respect to c	athode.	100 max.	volts
Heater positive with respect to c		100 max.	volts
BULB TEMPERATURE AT HOTTEST POINT			
ON BULB SURFACE		250 max.	οС
Typical Operation:			
	Doubler	Triple	r
	to 175 Mc	to 175	Mc
DC Plate Voltage	300	300	volts
Grid No.3 Conn	ected to	cathode at	socket
DC Grid—No.2 Voltage	*	*	volts
COO Key down conditions per tube without amm essentially negative may be used if the frequency envelope does not exceed 1151 O Useful power output is approximately 7		ulation. Mo peak of th crier condit	dulation e audio- ions.
• • *: See next page.			
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MAY 20, 1949





## VHF BEAM POWER AMPLIFIER

	Doubler to 175 Mc	Tripler to 175 Mc	
DC Grid-No.1 Voltage <sup>®</sup> · · · · · ·	∫ -75	-100	volts
be arra-no.1 vortage	<b>โ</b> 75000	100000	ohms
Peak RF Grid-No.1 Voltage	95	120	volts
DC Plate Current	40	35	ma
DC Grid-No.2 Current	4	5	ma
DC Grid-No.1 Current (Approx.)	1	1	ma
Driving Power (Approx.)	0.6	0.6	watt
Power Output (Approx.)*	3.6	2.8	watts

Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Resistance . . . . . . 0.1 max. megohm

#### CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current		0.69	0.81	amp
Grid No.1-Plate Capacitance♦		-	0.3	$\mu\mu$ f
Input Capacitance♦	-	8.0	11.0	щf
Output Capacitance •	-	<b>3.</b> 8	5.2	μμf

with no external shield.

Note 1: With 6 volts ac on heater.

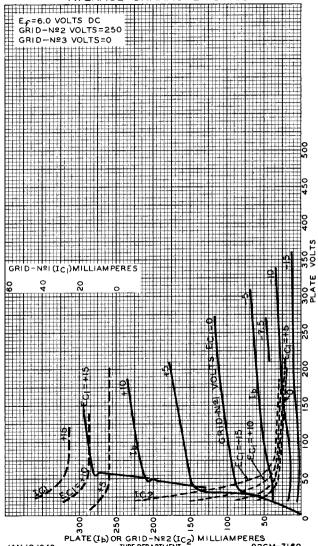
- Continuous Commercial Service.
- Obtained from a fixed supply, or by a grid-No.1 resistor of value shown.

  Useful power output is approximately 2.1 watts for doubler service and 1.3 watts for tripler service.
- Obtained from plate supply voltage of 300 volts through a series resistor of 12500 ohms.





#### AVERAGE CHARACTERISTICS

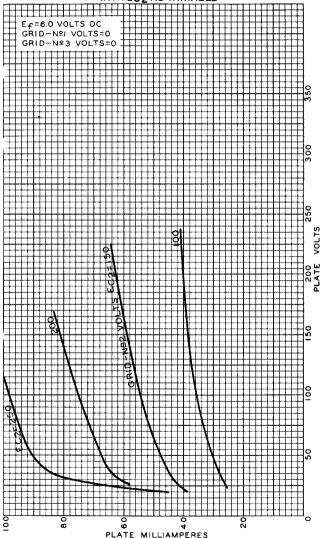


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TUBE DEPARTMENT RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



# AVERAGE PLATE CHARACTERISTICS WITH EC2 AS VARIABLE



2563